WHAT IS CLAIMED IS:

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A limiting circuit comprising:

an excess signal circuit for inputting an input signal and a limitation signal, and comparing them with each other so as to output an excess amount thereof as an excess signal when the input signal exceeds the limitation signal; and

a signal output circuit for inputting the input signal and the excess signal, subtracting the excess signal from the input signal of which subtracted amount is output as an output signal.

- The limiting circuit according to claim 1, further comprising a limitation signal circuit having such a structure that a constant current source and a resistor are connected in series and a voltage on a serial node is fetched as the limitation signal through a buffer.
- 3. The limiting circuit according to claim 2, wherein 20 the excess signal circuit has such a structure that a transistor to which the input signal is supplied as a control signal and a resistor are connected in series, a first current corresponding to the input signal flows, a voltage on a node of the transistor and the resistor is set to be a comparison voltage, and a second 25 current corresponding to an excess flows when the comparison voltage exceeds an output voltage of the buffer, and

the signal output circuit outputs, as the output signal, a third current corresponding to a difference between the first current and the second current.

The limiting circuit according to claim 1, further comprising a limitation signal circuit having such a structure that a constant current source and a resistor are connected in series and a voltage on a serial node is fetched as the

limitation signal.

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5. The limiting circuit according to claim 4, wherein the excess signal circuit has such a structure that a transistor to which the input signal is supplied as a control signal and a resistor are connected in series, a first current corresponding to the input signal flows, a voltage on a node of the transistor and the resistor is set to be a comparison voltage and is differentially amplified with the limitation signal, and a second current corresponding to an excess flows when the comparison voltage exceeds the limitation signal, and

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the signal output circuit outputs, as the output signal, a third current corresponding to a difference between the first current and the second current.

6. An electric motor driving device comprising:

an error amplifier for generating an error output signal depending on a difference between a reference signal and a current detection signal corresponding to a current flowing to an electric motor;

a limiting circuit for inputting the error output signal, limiting a value to be a predetermined value, and outputting a limitation error output signal; and

a driving circuit for PWM driving the electric motor based on the limitation error output signal and a signal corresponding to a sine wave-shaped rotating position signal of the electric motor.

- 7. The electric motor driving device according to claim 6, wherein the driving circuit has a multiplier for multiplying the limitation error output signal by the sine wave-shaped rotating position signal of the electric motor and outputting a PWM command signal, a PWM converting block for forming a PWM control signal based on the PWM command signal, and a driving stage block for outputting an electric motor driving current based on the PWM control signal.
- 8. The electric motor driving device according to claim 6,

wherein the limiting circuit according is comprising:

an excess signal circuit for inputting an input signal and a limitation signal, and comparing them with each other so as to output an excess amount thereof as an excess signal when the input signal exceeds the limitation signal; and

a signal output circuit for inputting the input signal and the excess signal, subtracting the excess signal from the input signal of which subtracted amount is output as an output signal.

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